Postgraduate Diploma Diagnosis, Treatment and Personalization of Medical Treatment with Artificial Intelligence



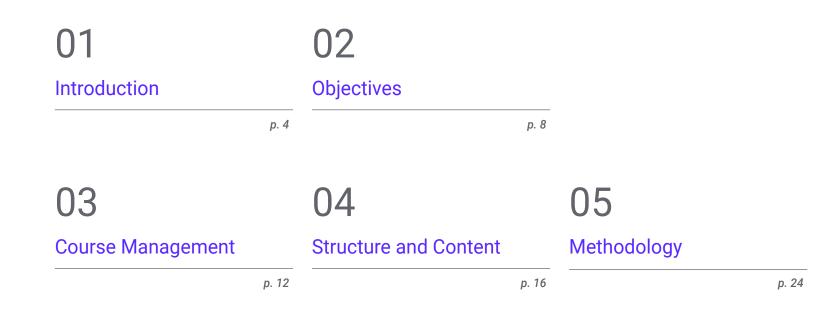


Postgraduate Diploma Diagnosis, Treatment and Personalization of Medical Treatment with Artificial Intelligence

- » Modality: online
- » Duration: 6 monthst
- » Certificate: TECH Global University
- » Credits: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtitute.com/us/artificial-intelligence/postgraduate-diploma/postgraduate-diploma-diagnosis-treatment-personalization-medical-treatment-artificial-intelligence

Index



06 Certificate

01 Introduction

Diagnostics in clinical practice using Artificial Intelligence (AI) offers important applications aimed at improving medical care. For example, in busy healthcare environments, Machine Learning helps to prioritize cases and patients based on the severity of their condition. This ensures that the most critical users receive care more quickly. At the same time, this tool is useful for continuously monitoring people with chronic pathologies (such as diabetes or hypertension) and providing early alerts when changes in health data are detected. Aware of its relevance, TECH has developed a university program that will delve into the clinical approach through the most innovative algorithms. And all in a convenient 100% online mode.

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Introduction | 05 tech

Join this 100% online program now, where you will delve into Machine Learning Algorithms and their applications in Medical Research"

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tech 06 | Introduction

Al Algorithms play a key role in establishing personalized therapeutic treatments. This set of computer-defined instructions uses clinical as well as biomedical or genetic data to develop predictive models. In this way, specialists apply personalized therapies and can predict responses to treatments so that they have a higher probability of success. In addition, these tools can accurately calculate drug doses, which improves the efficacy of approaches.

In this context, TECH is creating an advanced program that will delve into the use of Machine Learning during the planning and execution of medical procedures. Under the guidance of a well-versed faculty, this curriculum will analyze pattern recognition and *Machine Learning* in clinical diagnostics. Therefore, specialists will correctly interpret medical images to provide the most appropriate treatments for each individual. The syllabus will also provide comprehensive skills on the most innovative therapeutic protocols. In this line, the didactic materials will offer the latest advances in assisted surgical robotics so that graduates will remain at the technological forefront.

In addition, the program's methodology will be a reference in the field of robotic assisted surgery. With a 100% online format, it will allow graduates to advance in their specialization without compromising their job responsibilities. In addition, the application of the *Relearning* system, based on the reiteration of key concepts, ensures a deep and lasting understanding. This pedagogical approach reinforces the ability of professionals to effectively apply the knowledge acquired in their daily practice. In turn, the only thing physicians will need to complete this academic pathway will be a device with Internet access and a commitment to update their knowledge that will allow them to experience a leap in quality in their careers. This **Postgraduate Diploma in Diagnosis, Treatment and Personalization of Medical Treatment with Artificial Intelligence** contains the most complete and up-to-date program on the market. The most important features include:

- Development of practical cases presented by experts in Artificial Intelligence in Clinical Practice
- The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- Practical exercises where self-assessment can be used to improve learning
- Its special emphasis on innovative methodologies
- Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- Content that is accessible from any fixed or portable device with an Internet connection



You will apply Artificial Intelligence to respond to health emergencies such as epidemiological outbreaks and in the development of new vaccines"

Introduction | 07 tech

You will promote patient autonomy through active participation in the design of personalized treatments following the study of this program" You will perform multimodal clinical data integrations to achieve more accurate diagnoses.

You will have access to a learning system based on repetition, with natural and progressive teaching throughout the entire syllabus.

The program's teaching staff includes professionals from the sector who contribute their work experience to this program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

02 **Objectives**

This curriculum will allow the physician to develop skills to apply the tools of Machine Learning to clinical practice. In this way, graduates will be able to make assisted diagnoses, analyze medical images and interpret their results correctly. In turn, experts will gain a holistic approach to design and execute personalized medical treatments according to the specificities of the users. They will also master emerging trends to provide solutions in diverse areas, such as advanced monitoring with smart devices.

Objectives | 09 tech

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You will acquire a comprehensive vision of the application of Artificial Intelligence in the field of health thanks to this 100% online Postgraduate Diploma"

tech 10 | Objectives



General Objectives

- Understand the theoretical foundations of Artificial Intelligence
- Study the different types of data and understand the data lifecycle
- Evaluate the crucial role of data in the development and implementation of AI solutions
- Delve into algorithms and complexity to solve specific problems
- Explore the theoretical basis of neural networks for Deep Learning development
- Analyze bio-inspired computing and its relevance in the development of intelligent systems
- Analyze current strategies of Artificial Intelligence in various fields, identifying opportunities and challenges
- Critically evaluate the benefits and limitations of AI in healthcare, identifying potential pitfalls and providing an informed assessment of its clinical application
- Recognize the importance of collaboration across disciplines to develop effective AI solutions
- Gain a comprehensive perspective on emerging trends and technological innovations in Al applied to healthcare
- Acquire solid knowledge in medical data acquisition, filtering, and preprocessing
- Understand the ethical principles and legal regulations applicable to the implementation of AI in medicine, promoting ethical practices, fairness, and transparency





Specific Objectives

Module 1. Diagnosis in Clinical Practice Using AI

- Critically analyze the benefits and limitations of AI in health care
- Identify potential pitfalls, providing an informed assessment of its application in clinical settings
- Recognize the importance of collaboration across disciplines to develop effective AI solutions
- Develop competencies to apply AI tools in the clinical setting, focusing on aspects such as assisted diagnosis, medical image analysis and interpretation of results
- Identify potential pitfalls in the application of AI in healthcare, providing an informed view of its use in clinical settings

Module 2. Treatment and Management of the AI Patient

- Interpret results for ethical dataset creation and strategic application in healthcare emergencies
- Acquire advanced skills in the presentation, visualization and management of healthcare AI data
- Gain a comprehensive perspective on emerging trends and technological innovations in Al applied to healthcare
- Develop AI algorithms for specific applications such as health monitoring, facilitating the effective implementation of solutions in medical practice
- Design and implement individualized medical treatments by analyzing patients' clinical and genomic data with AI

Module 3. Health Personalization through AI

- Delve into emerging trends in AI applied to personalized healthcare and their future impact
- Define the applications of AI to personalize medical treatments, ranging from genomic analysis to pain management
- Differentiate specific AI algorithms for the development of applications related to drug design or surgical robotics
- Delineate emerging trends in AI applied to personalized health and their future impact
- Promote innovation through the creation of strategies aimed at improving medical care



An academic institution that adapts to you and designs a program that will allow you to reconcile your daily activities with a quality program"

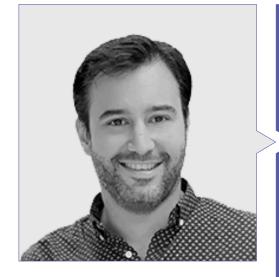
03 Course Management

In its maxim of offering educational excellence, TECH brings together a team of topnotch teachers. The professionals who make up this Postgraduate Diploma have extensive research and application experience in the field of Diagnosis, Treatment and Personalization of Medical Treatment with AI. Their excellent results have allowed them to work in the most prestigious hospitals. Accordingly, these specialists pour into this program all their knowledge in order to guarantee a successful learning process that allows students to acquire skills that they can immediately incorporate into their practice.

An experienced teaching group will guide you throughout the learning process and will resolve any doubts that may arise"

tech 14 | Course Management

Management



Dr. Peralta Martín-Palomino, Arturo

- CEO and CTO at Prometeus Global Solutions
- CTO at Korporate Technologies
- CTO at AI Shephers GmbH
- Consultant and Strategic Business Advisor at Alliance Medical
- Director of Design and Development at DocPath
- Ph.D. in Psychology from the University of Castilla La Mancha
- Ph.D. in Economics, Business and Finance from the Camilo José Cela University
- Ph.D. in Psychology from University of Castilla La Mancha
- Máster in Executive MBA por la Universidad Isabel I
- Master's Degree in Sales and Marketing Management, Isabel I University
- Expert Master's Degree in Big Data by Hadoop Training
- Master's Degree in Advanced Information Technologies from the University of Castilla la Mancha
- Member of: SMILE Research Group

Course Management | 15 tech



Mr. Martín-Palomino Sahagún, Fernando

- Chief Technology Officer and R+D+i Director at AURA Diagnostics (medTech)
- Business Development at SARLIN
- Operations Director at Alliance Diagnostics
- Innovation Director at Alliance Diagnostics
- Chief Information Officer at Alliance Medical
- Field Engineer & Project Management in Digital Radiology at Kodak
- MBA at Polytechnic University of Madrid
- Executive Master's Degree in Marketing and Sales, ESADE
- Telecommunications Engineer from the University Alfonso X El Sabio

Professors

Dr. Carrasco González, Ramón Alberto

- Computer Science and Artificial Intelligence Specialist
- Researcher
- Head of Business Intelligence (Marketing) at Caja General de Ahorros de
- Granada and at el Banco Mare Nostrum
- Head of Information Systems (*Data Warehousing and Business Intelligence*) at Caja General de Ahorros de Granada and Banco Mare Nostrum
- PhD in Artificial Intelligence, University of Granada
- Computer Engineer from the University of Granada

Mr. Popescu Radu, Daniel Vasile

- Pharmacology, Nutrition and Diet Specialist
- Freelance Producer of Didactic and Scientific Contents
- Nutritionist and Community Dietitian
- Community Pharmacist
- Researcher
- Master's Degree in Nutrition and Health at the Universidad Oberta de Catalunya
- Master's Degree in Psychopharmacology, University of Valencia
- Pharmacist by the Complutense University of Madrid
- Nutritionist-Dietician by the European University Miguel de Cervantes

04 Structure and Content

This program will delve into the diagnosis, treatment and personalization of AI medical therapies. Designed by experts in this field, the curriculum will delve into pattern recognition and *Machine Learning* for medical assessment. The syllabus will also delve into assisted treatment systems, taking into account machine learning algorithms for the establishment of therapeutic processes. The materials will also analyze the applications of intelligent automation in fields such as pharmacogenomics. In addition, the program will enable physicians to master the design of personalized therapies based on the needs of their patients.

Structure and Content | 17 tech

Enjoy the most up-to-date medicalscientific content on the educational scene without time restrictions or unnecessary trips to a study center"

tech 18 | Structure and Content

Module 1. Diagnosis in Clinical Practice Using Artificial Intelligence

- 1.1. Technologies and Tools for Al-assisted Diagnosis
 - 1.1.1. Development of Software for Al-assisted Diagnosis in Various Medical Specialties
 - 1.1.2. Use of Advanced Algorithms for Rapid and Accurate Analysis of Clinical Symptoms and Signs
 - 1.1.3. Integration of AI in Diagnostic Devices to Improve Efficiency
 - 1.1.4. Al Tools to Assist in the Interpretation of Laboratory Test Results
- 1.2. Integration of Multimodal Clinical Data for Diagnosis
 - 1.2.1. Al Systems for Combining Imaging, Laboratory, and Clinical Record Data
 - 1.2.2. Tools for Correlating Multimodality Data into More Accurate Diagnoses
 - 1.2.3. Use of AI to Analyze Complex Patterns from Different Types of Clinical Data
 - 1.2.4. Integration of Genomic and Molecular Data in Al-assisted Diagnosis
- 1.3. Creation and Analysis of Health Datasets with Al
 - 1.3.1. Development of Clinical Databases for Training Al Models
 - 1.3.2. Use of AI for Analysis and Extraction of Insights from Large Health Datasets
 - 1.3.3. Al Tools for Clinical Data Cleaning and Preparation
 - 1.3.4. Al Systems for Identifying Trends and Patterns in Health Data
- 1.4. Visualization and Management of Health Data with AI
 - 1.4.1. Al Tools for Interactive and Understandable Visualization of Health Data
 - 1.4.2. AI Systems for Efficient Management of Large Volumes of Clinical Data
 - 1.4.3. Use of Al-based Dashboards for Monitoring of Health Indicators
 - 1.4.4. Al Technologies for Health Data Management and Security

- 1.5. Pattern Recognition and Machine Learning in Clinical Diagnostics
 - 1.5.1. Application of Machine Learning Techniques for Pattern Recognition in Clinical Data
 - 1.5.2. Use of AI in the Early Identification of Diseases through Pattern Analysis
 - 1.5.3. Development of Predictive Models for More Accurate Diagnoses
 - 1.5.4. Implementation of Automatic Learning Algorithms in the Interpretation of Health Data
- 1.6. Interpretation of Medical Images Using AI
 - 1.6.1. Al Systems for Anomaly Detection and Classification of Medical Image Anomalies
 - 1.6.2. Use of Deep Learning in the interpretation of X-rays, MRI and CT scans
 - 1.6.3. Al Tools for Improving Accuracy and Speed in Diagnostic Imaging
 - 1.6.4. Implementation of AI for Image-Based Clinical Decision-Making Assistance
- 1.7. Natural Language Processing on Medical Records for Clinical Diagnosis
 - 1.7.1. Use of NLP for the Extraction of Relevant Information from Medical Records
 - 1.7.2. Al Systems for Analyzing Physician Notes and Patient Reports
 - 1.7.3. Al Tools for Summarizing and Classifying Information from Medical Records
 - 1.7.4. Application of NLP in Identifying Symptoms and Diagnoses from Clinical Texts
- 1.8. Validation and Evaluation of Al-assisted Diagnostic Models
 - 1.8.1. Methods for Validation and Testing of AI Models in Real Clinical Environments
 - 1.8.2. Evaluation of the Performance and Accuracy of Al-assisted Diagnostic Tools
 - 1.8.3. Use of AI to Ensure Reliability and Ethics in Clinical Diagnosis
 - 1.8.4. Implementation of Continuous Assessment Protocols for AI Systems in Health Care
- 1.9. Al in the Diagnosis of Rare Diseases
 - 1.9.1. Development of AI Systems Specializing in the Identification of Rare Diseases
 - 1.9.2. Use of AI to Analyze Atypical Patterns and Complex Symptomatology
 - 1.9.3. Al Tools for Early and Accurate Diagnosis of Rare Diseases
 - 1.9.4. Implementation of Global Databases with AI to Improve Diagnosis of Rare Diseases



- 1.10. Success Stories and Challenges in Al Diagnostics Implementation
 - 1.10.1. Analysis of Case Studies Where AI Has Significantly Improved Clinical Diagnosis
 - 1.10.2. Assessment of the Challenges in the Adoption of Al in Clinical Settings
 - 1.10.3. Discussion of Ethical and Practical Barriers in Implementing AI for Diagnosis
 - 1.10.4. Examination of Strategies to Overcome Obstacles in Integrating AI in Medical Diagnostics

Module 2. Treatment and Management of the Artificial Intelligence Patient

- 2.1. Al-assisted Treatment Systems
 - 2.1.1. Development of Al Systems to Assist in Therapeutic Decision Making
 - 2.1.2. Use of AI for the Personalization of Treatments Based on Individual Profiles
 - 2.1.3. Implementation of AI Tools in the Administration of Dosage and Medication Scheduling
 - 2.1.4. Integration of AI in Real-Time Monitoring and Adjustment of Treatments
- 2.2. Definition of Indicators for Monitoring Patient Health Status
 - 2.2.1. Establishment of Key Parameters using AI for Patient Health Monitoring
 - 2.2.2. Use of AI to Identify Predictive Indicators of Health and Disease
 - 2.2.3. Development of Early Warning Systems Based on Health Indicators
 - 2.2.4. Implementation of AI for Continuous Assessment of Patient Health Status
- 2.3. Tools for Monitoring and Controlling Health Indicators
 - 2.3.1. Development of Al-enabled Mobile and Wearable Applications for Health Monitoring
 - 2.3.2. Implementation of AI Systems for the Real-Time Analysis of Health Data
 - 2.3.3. Use of Al-based Dashboards for Visualization and Monitoring of Health Indicators
 - 2.3.4. Integration of IoT Devices in the Continuous Monitoring of Health Indicators with AI

tech 20 | Structure and Content

- 2.4. Al in the Planning and Execution of Medical Procedures
 - 2.4.1. Use of AI Systems to Optimize the Planning of Surgeries and Medical Procedures
 - 2.4.2. Implementation of AI in the Simulation and Practice of Surgical Procedures
 - 2.4.3. Use of AI to Improve Accuracy and Efficiency in the Execution of Medical Procedures
 - 2.4.4. Application of AI in Surgical Resource Coordination and Management
- 2.5. Machine Learning Algorithms for the Establishment of Therapeutic Treatments
 - 2.5.1. Use of Machine Learning to Develop Personalized Treatment Protocols
 - 2.5.2. Implementation of Predictive Algorithms for the Selection of Effective Therapies
 - 2.5.3. Development of AI Systems for Real-time Tailoring of Treatments
 - 2.5.4. Application of AI in the Analysis of the Effectiveness of Different Therapeutic Options
- 2.6. Adaptability and Continuous Updating of Therapeutic Protocols Using AI
 - 2.6.1. Implementation of AI Systems for Dynamic Review and Updating of Treatments
 - 2.6.2. Use of AI in Adaptation of Therapeutic Protocols to New Findings and Data
 - 2.6.3. Development of AI Tools for Continuous Personalization of Treatments
 - 2.6.4. Integration of AI in Adaptive Response to Evolving Patient Conditions
- 2.7. Optimization of Healthcare Services with AI Technology
 - 2.7.1. Use of AI to Improve the Efficiency and Quality of Health Care Services
 - 2.7.2. Implementation of AI Systems for Healthcare Resource Management
 - 2.7.3. Development of AI Tools for Workflow Optimization in Hospitals
 - 2.7.4. Application of AI in the Reduction of Waiting Times and Improvement of Patient Care

- 2.8. Application of AI in the Response to Health Emergencies
 - 2.8.1. Implementation of AI Systems for Rapid and Efficient Healthcare Crisis Management
 - 2.8.2. Use of AI in Optimizing the Distribution of Resources in Emergencies
 - 2.8.3. Development of AI Tools for Disease Outbreak Prediction and Response
 - 2.8.4. Integration of AI in Warning and Communication Systems during Health Emergencies
- 2.9. Interdisciplinary Collaboration in Al-assisted Treatments
 - 2.9.1. Promotion of Collaboration between Different Medical Specialties through Al Systems
 - 2.9.2. Use of AI to Integrate Knowledge and Techniques from Different Disciplines in Treatment
 - 2.9.3. Development of AI Platforms to Facilitate Interdisciplinary Communication and Coordination
 - 2.9.4. Implementation of AI in the Creation of Multidisciplinary Treatment Teams
- 2.10. Successful Experiences of AI in the Treatment of Diseases
 - 2.10.1. Analysis of Successful Cases in the Use of AI for Effective Treatment of Diseases
 - 2.10.2. Evaluation of the Impact of AI in Improving Treatment Outcomes
 - 2.10.3. Documentation of Innovative Experiences in the Use of AI in Different Medical Areas
 - 2.10.4. Discussion on the Advances and Challenges in the Implementation of AI in Medical Treatments



Structure and Content | 21 tech

Module 3. Health Personalization through Artificial Intelligence

- 3.1. Al Applications in Genomics for Personalized Medicine
 - 3.1.1. Development of AI Algorithms for the Analysis of Genetic Sequences and their Relationship to Diseases
 - 3.1.2. Use of AI in the Identification of Genetic Markers for Personalized Treatments
 - 3.1.3. Implementation of AI for the Rapid and Accurate Interpretation of Genomic Data
 - 3.1.4. Al Tools in Correlating Genotypes with Drug Responses
- 3.2. Al in Pharmacogenomics and Drug Design
 - 3.2.1. Development of AI Models for Predicting Drug Efficacy and Safety
 - 3.2.2. Use of AI in the Identification of Therapeutic Targets and Drug Design
- 3.2.3. Application of AI in the Analysis of Gene-Drug Interactions for Personalization of Treatments
 - 3.2.4. Implementation of AI Algorithms to Accelerate New Drug Discovery
- 3.3. Personalized Monitoring with Smart Devices and AI
 - 3.3.1. Development of Wearables with AI for Continuous Monitoring of Health Indicators
 - 3.3.2. Use of AI in the Interpretation of Data Collected by Smart Devices
 - 3.3.3. Implementation of Al-based Early Warning Systems for Health Conditions
 - 3.3.4. Al Tools for Personalization of Lifestyle and Health Recommendations
- 3.4. Clinical Decision Support Systems with Al
 - 3.4.1. Implementation of AI to Assist Clinicians in Clinical Decision Support Systems
 - 3.4.2. Development of AI Systems that Provide Clinical Data-Based Recommendations
 - 3.4.3. Use of Al in Risk/Benefit Assessment of Different Therapeutic Options
 - 3.4.4. Al tools for the Integration and Analysis of Real-Time Healthcare Data

tech 22 | Structure and Content

- 3.5. Trends in Health Personalization with AI
 - 3.5.1. Analysis of the Latest Trends in AI for Healthcare Personalization
 - 3.5.2. Use of AI in the Development of Preventive and Predictive Approaches in Health Care
 - 3.5.3. Implementation of AI in the Adaptation of Health Plans to Individual Needs
 - 3.5.4. Exploration of New AI Technologies in the Field of Personalized Health Care
- 3.6. Advances in Al-assisted Surgical Robotics
 - 3.6.1. Development of Al-assisted Surgical Robots for Precise and Minimally Invasive Procedures
 - 3.6.2. Use of AI to Improve Accuracy and Safety in Robotic-Assisted Surgeries
- 3.6.3. Implementation of AI Systems for Surgical Planning and Operative Simulation
 - 3.6.4. Advances in the Integration of Tactile and Visual Feedback in Surgical Robotics with AI
- 3.7. Development of Predictive Models for Personalized Clinical Practice
 - 3.7.1. Use of AI to Create Predictive Models of Disease Based on Individual Data
 - 3.7.2. Implementation of AI in the Prediction of Treatment Responses
 - 3.7.3. Development of AI Tools for Health Risk Anticipation
 - 3.7.4. Application of Predictive Models in the Planning of Preventive Interventions
- 3.8. Al in Pain Management and Personalized Pain Treatment
 - 3.8.1. Development of AI Systems for Personalized Pain Assessment and Management
 - 3.8.2. Use of AI in the Identification of Pain Patterns and Treatment Responses
 - 3.8.3. Implementation of AI Tools in the Personalization of Pain Therapies
 - 3.8.4. Application of AI in Monitoring and Adjustment of Pain Treatment Plans





Structure and Content | 23 tech

- 3.9. Patient Autonomy and Active Participation in Customization
 - 3.9.1. Promotion of Patient Autonomy through AI Tools for Health Management
 - 3.9.2. Development of AI Systems that Empower Patients in Decision Making
 - 3.9.3. Use of AI to Provide Personalized Information and Education to Patients
 - 3.9.4. Al Tools that Facilitate Active Patient Involvement in Treatment
- 3.10. Integration of AI in Electronic Medical Records
 - 3.10.1. Implementation of AI for the Efficient Analysis and Management of Electronic Medical Records
 - 3.10.2. Development of AI Tools for Extraction of Clinical Insights from Electronic Records
 - 3.10.3. Use of AI to Improve the Accuracy and Accessibility of Medical Record Data
 - 3.10.4. Al Application for Correlation of Medical Record Data with Treatment Plans

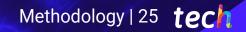


With the best-rated study aids in online teaching, this program will allow you to make unstoppable progress in your professional growth"

05 **Methodology**

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning.**

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.



Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

tech 26 | Methodology

Case Study to contextualize all content

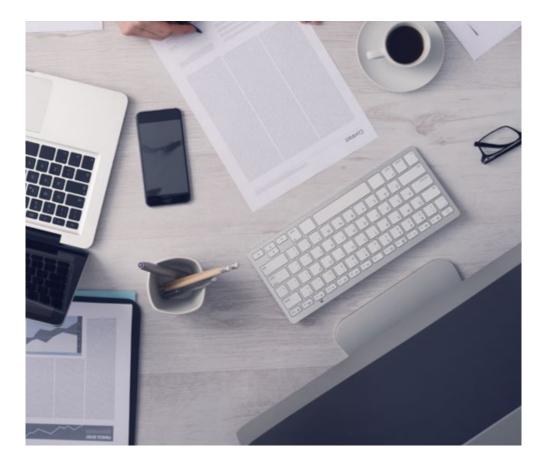
Our program offers a revolutionary approach to developing skills and knowledge. Our goal is to strengthen skills in a changing, competitive, and highly demanding environment.

At TECH, you will experience a learning methodology that is shaking the foundations of traditional universities around the world"



You will have access to a learning system based on repetition, with natural and progressive teaching throughout the entire syllabus.

Methodology | 27 tech



The student will learn to solve complex situations in real business environments through collaborative activities and real cases.

A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch, which presents the most demanding challenges and decisions in this field, both nationally and internationally. This methodology promotes personal and professional growth, representing a significant step towards success. The case method, a technique that lays the foundation for this content, ensures that the most current economic, social and professional reality is taken into account.

666 Our program prepares you to face new challenges in uncertain environments and achieve success in your career"

The case method has been the most widely used learning system among the world's leading Information Technology schools for as long as they have existed. The case method was developed in 1912 so that law students would not only learn the law based on theoretical content. It consisted of presenting students with real-life, complex situations for them to make informed decisions and value judgments on how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

What should a professional do in a given situation? This is the question that you are presented with in the case method, an action-oriented learning method. Throughout the course, students will be presented with multiple real cases. They will have to combine all their knowledge and research, and argue and defend their ideas and decisions.

tech 28 | Methodology

Relearning Methodology

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

In 2019, we obtained the best learning results of all online universities in the world.

At TECH you will learn using a cutting-edge methodology designed to train the executives of the future. This method, at the forefront of international teaching, is called Relearning.

Our university is the only one in the world authorized to employ this successful method. In 2019, we managed to improve our students' overall satisfaction levels (teaching quality, quality of materials, course structure, objectives...) based on the best online university indicators.



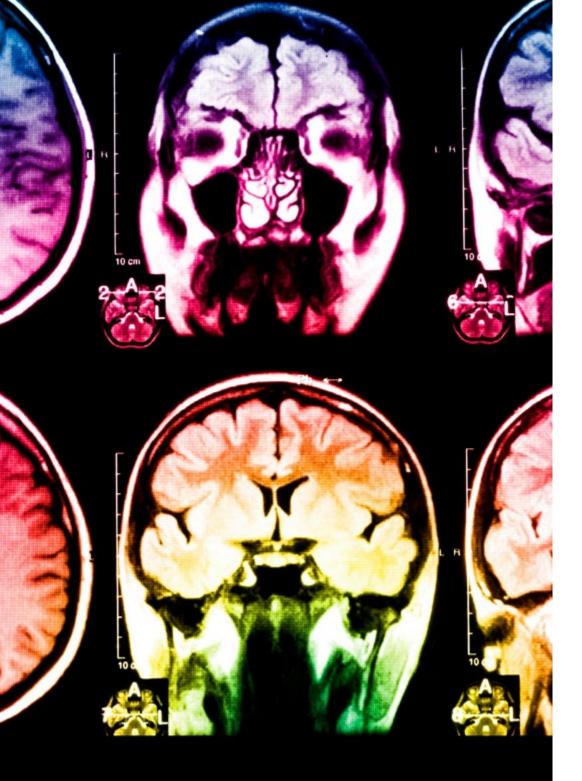
Methodology | 29 tech

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically. This methodology has trained more than 650,000 university graduates with unprecedented success in fields as diverse as biochemistry, genetics, surgery, international law, management skills, sports science, philosophy, law, engineering, journalism, history, and financial markets and instruments. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.

From the latest scientific evidence in the field of neuroscience, not only do we know how to organize information, ideas, images and memories, but we know that the place and context where we have learned something is fundamental for us to be able to remember it and store it in the hippocampus, to retain it in our long-term memory.

In this way, and in what is called neurocognitive context-dependent e-learning, the different elements in our program are connected to the context where the individual carries out their professional activity.



tech 30 | Methodology

This program offers the best educational material, prepared with professionals in mind:



Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

30%

10%

8%

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



Practising Skills and Abilities

They will carry out activities to develop specific skills and abilities in each subject area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.



Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.

Methodology | 31 tech



Case Studies

Students will complete a selection of the best case studies chosen specifically for this program. Cases that are presented, analyzed, and supervised by the best specialists in the world.

20%

25%

4%

3%



Interactive Summaries

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.

06 **Certificate**

The Postgraduate Diploma in Diagnosis, Treatment and Personalization of Medical Treatment with Artificial Intelligence guarantees students, in addition to the most rigorous and up-to-date education, access to a qualification issued by TECH Global University.



Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork"

tech 34 | Certificate

This program will allow you to obtain your **Postgraduate Diploma in Diagnosis, Treatment** and **Personalization of Medical Treatment with Artificial Intelligence** endorsed by **TECH Global University**, the world's largest online university.

TECH Global University is an official European University publicly recognized by the Government of Andorra (*official bulletin*). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: Postgraduate Diploma in Diagnosis, Treatment and Personalization of Medical Treatment with Artificial Intelligence

Modality: online

Duration: 6 months

Accreditation: 18 ECTS



tecn global university Postgraduate Diploma Diagnosis, Treatment and Personalization of Medical Treatment with Artificial Intelligence » Modality: online » Duration: 6 monthst » Certificate: TECH Global University » Credits: 18 ECTS » Schedule: at your own pace » Exams: online

Postgraduate Diploma Diagnosis, Treatment and Personalization of Medical Treatment with Artificial Intelligence

